

OCT 18 2004

Sheet 1 of 2Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
16459-008001Application No.
10/724,033Information Disclosure Statement
by Applicant
(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Alexei A. ErchakFiling Date
November 26, 2003Group Art Unit
2875 2879

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
BW	AA	2003/0141507	07/31/03	Krames et al.			✓
✓	AB	5,073,041	12/17/1991	Rastani			11/13/90
	AC	5,359,345	10/25/94	Hunter et al.			✓
	AD	5,363,009	11/8/1994	Monto			08/10/92
	AE	5,426,657	06/20/1995	Vakhsoori			05/27/94
	AF	5,631,190	05/20/97	Negley et al.			✓
	AG	5,633,527	05/27/1997	Lear			02/06/95
	AH	5,724,062	03/03/98	Hunter et al.			✓
	AI	5,793,062	08/11/98	Kish et al.			
	AJ	5,799,924	07/14/98	Krames et al.			
	AK	5,955,749	09/21/99	Joannopoulos et al.			✓
	AL	6,071,795	06/06/00	Cheung et al.			✓
	AM	6,091,085	07/18/00	Lester			02/19/98
	AN	6,287,882	09/11/01	Chang et al.			✓
	AO	6,410,942	06/25/02	Thibeault et al.			
	AP	6,420,242	07/16/02	Cheung et al.			
	AQ	6,469,324	10/22/02	Wang, Tien Yang			
✓	AR	6,559,075	05/06/03	Kelly et al.			
✓	AS	6,657,236	12/02/03	Thibeault et al.	✓	✓	✓

Foreign Patent Documents or Published Foreign Patent Applications

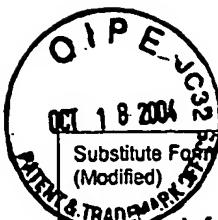
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
BW	AT	WO 98/14986	04/09/98	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
BW	AU	W.S. Wong et al. "Damage-free separation of GaN thin films from sapphire substrates", Appl. Phys. Lett. 72 (5), February 2, 1998, pages 599-601

Examiner Signature	Date Considered
	8/25/05

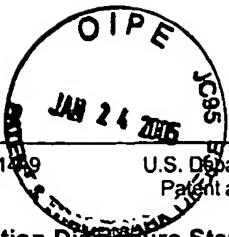
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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16459-008001	Application No. 10/724,033
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Alexei A. Erchak		
		Filing Date November 26, 2003	Group Art Unit 2875-2879	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
BW	AV	M.K. Kelly et al. "Optical process for liftoff of Group III-nitride films", <i>Physica Status Solidi; Rapid Research Note</i> , November 28, 1996, 2 pages.
	AW	A. A. Erchak et al. "Enhanced coupling to vertical radiation using a two-dimensional photonic crystal in a semiconductor light-emitting diode", <i>Appl. Phys. Lett.</i> (78 (5), January 29, 2001, pages 563-565
	AX	P.L. Gourley et al. "Optical properties of two-dimensional photonic lattices fabricated as honeycomb nanostructures in compound semiconductors", <i>Appl. Phys. Lett.</i> 64(6), February 7, 1994, pages 687-689
	AY	P.L. Gourley et al. "Optical Bloch waves in a semiconductor photonic lattice", <i>Appl. Phys. Lett.</i> 60 (22), June 1, 1992, pages 2714-2716
	AZ	J.R. Wendt et al. "Nanofabrication of photonic lattice structures in GaAs/AlGaAs", <i>J. Vac. Sci. Technol. B</i> 11(6), November/December 1993, pages 2637-2640
	AAA	M. Krames et al "Introduction to the Issue on High-Efficiency Light-Emitting Diodes", <i>IEEE Journal on selected topic in quantum electronics</i> , Vol. 8, No. 2 March/April 2002, pages 185-188
	ABB	K. Streubel et al.. "High Brightness AlGaInP Light-Emitting Diodes", <i>IEEE Journal on selected topic in quantum electronics</i> , Vol. 8, No. 2, March/April 2002, pages 321-332
	ACC	M. Okai et al. "Novel method to fabricate corrugation for a $\lambda/4$ -shifted distributed feedback laser using a grating photomask", <i>Appl. Phys. Lett.</i> 55(5), July 31, 1989, pages 415-417
	ADD	T.L. Koch et al. "1.55- μ InGaAsP distributed feedback vapor phase transported buried heterostructure lasers", <i>Appl. Phys. Lett.</i> 47 (1), July 1, 1985, pages 12-14
	AEE	W.T. Tsang et al. "Semiconductor distributed feedback lasers with quantum well or superlattice grating for index or gain-coupled optical feedback", <i>Appl. Phys. Lett.</i> 60 (21), May 25 1992, pages 258-2582
	AFF	M. Zelmann et al. "Seventy-fold enhancement of light extraction from a defectless photonic crystal made on silicon-on-insulator", <i>Appl. Phys. Lett.</i> 83 (13), September 29, 2003, pages 2542-2544
	AGG	M. Rattier et al. "Omnidirectional and compact guided light extraction from Archimedean photonic lattices", <i>Appl. Phys. Lett.</i> 83 (7), August 18, 2003, pages 1283-1285
	AHH	Y.-J. Lee et al. "A high-extraction-efficiency nanopatterned organic light-emitting diode", <i>Appl. Phys. Lett.</i> 82(21), May 26, 2003, pages 3779-3781
	AII	I. Schnitzer et al. "30% external quantum efficiency from surface textured, thin-film light-emitting diodes", <i>Appl. Phys. Lett.</i> 63 (18), October 18, 1993, pages 2174-2176
	AJJ	M. Boroditsky et al. "Light extraction from optically pumped light-emitting diode by thin-slab photonic crystals", <i>Appl. Phys. Lett.</i> 75 (8), August 23, 1999, pages 1036-1038
	AKK	L. Chen et al. "Fabrication of 50-100 nm Patterned InGaN Blue Light Emitting Heterostructures", <i>Phys. Stat. Sol. (a)</i> , 188 (1), 2001, pages 135-138.
	ALL	I. Bulu et al. "Highly directive radiation from sources embedded inside photonic crystals", <i>Appl. Phys. Lett.</i> 83 (16), October 20, 2003, pages 3263-3265
	AMM	T. N. Oder et al. "III-nitride photonic crystals", <i>Appl. Phys. Lett.</i> 83 (6), August 11, 2003, pages 1231-1233
✓	ANN	M.K. Kelly et al. "Optical patterning of GaN films", <i>Appl. Phys. Lett.</i> 68 (12), September 16, 1996, pages 1749-1751

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Sheet 1 of 1

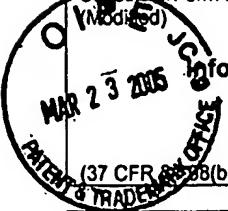
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Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Alexei A. Erchak			
		Filing Date November 26, 2003	Group Art Unit 2875 2879		

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
BW	AA	5,834,331	November 10, 1998	Razeghi			
BW	AB	6,426,515	July 30, 2002	Ishikawa			
BW	AC	2003/0222263	December 4, 2003	Choi			
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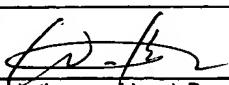
Foreign Patent Documents or Published Foreign Patent Applications							
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	AN						
	AO						
	AP						

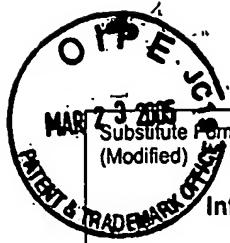
Other Documents (include Author, Title, Date, and Place of Publication)							
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	AS						
	AT						

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
BW	AA	6,831,302	12/14/04	Erchack et al.			/
	AB	6,504,180	1/7/03	Heremans, et al.			/
	AC	6,690,268	2/10/04	Schofield, et al.			/
	AD	6,642,618	11/4/03	Yagi, et al.	/		
	AE	6,784,027	8/31/04	Streubel, et al.	/		
	AF	6,847,057	1/25/05	Gardner, et al.			
	AG	6,072,628	6/6/00	Sarayeddine			
	AH	6,122,103	9/19/00	Perkins, et al.			
	AI	6,288,840	9/11/01	Perkins, et al.			
	AJ	6,574,383	6/3/03	Erchak, et al.			
	AK	6,504,180	1/7/03	Heremans, et al.			
	AL	6,690,268	2/10/04	Schofield, et al.			
	AM	5,162,878	11/10/92	Sasagawa, et al.			
	AN	6,828,597	12/07/04	Wegleiter, et al.			
	AO	5,814,839	9/29/98	Hosoba			
	AP	5,491,350	2/13/96	Unno, et al.			
	AQ	6,303,405	10/16/01	Yoshida, et al.			
	AR	2002/0110172	8/15/02	Hasnain, Ghulam, et al.			
	AS	6,222,207	4/24/01	Carter-Coman, et al.			
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	AU	6,573,537	6/3/03	Steigerwald, et al.			
	AV	6,465,808	10/15/02	Lin			
	AW	2003-0143772	7/31/03	Chen, Tzer-Perng			
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	AZ	6,740,906	5/25/04	Slater, Jr., et al.			/
	AAA	6,791,119	9/14/04	Slater, Jr., et al.			/

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
BW	ABB	6,794,684	9/21/04	Slater, Jr., et al.			
	ACC	6,825,502	11/30/04	Okazaki, et al.			
	ADD	2004-0182914	9/23/04	Venugopalan, Hari S.			
✓	AEE	2005-0019971	1/27/05	Slater, David B. Jr.	✓	✓	✓

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
BW	AFF	02/071450 A2		WO			
	AGG						
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	AII						
	AJJ						

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
BW	AKK	Wendt et al. "Nanofabrication of photonic lattice structures in GaAs/AlGaAs," J. Vac. Sci. Technol. B 11 (6), Nov/Dec 1993, pages 2637-2640
BW	ALL	Gourley et al. "Optical properties of two-dimensional photonic lattices fabricated as honeycomb nanostructures in compound semiconductors," Appl. Phys. Lett. 64 (6), 7 February 1994, pages 687-689
	AMM	
	ANN	

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		Applicant Alexei A. Erchak	
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
BS	AA	5,126,231	June 30, 1992	Levy			
	AB	6,778,746	August 17, 2004	Charlton, et al.			
	AC	6,742,907	June 1, 2004	Funamoto, et al.			
	AD	2004/0110856	June 10, 2004	Young, Jung Gun et al.			
	AE	2004/0144985	July 29, 2004	Zhang, Zhibo, et al.			
	AF	2004/0207310	October 21, 2004	Erchak et al.			
	AG	2004/0207319	October 21, 2004	Erchak et al.			
	AH	2004-0206962	October 21, 2004	Erchak et al.			
	AI	2004-0206971	October 21, 2004	Erchak et al.			
	AJ	2004-0207320	October 21, 2004	Erchak			
	AK	2004-0259279	December 23, 2004	Erchak et al.			
	AL	2004-0259285	December 23, 2004	Erchak et al.			
	AM	2005/0051785	March 10, 2005	Erchak et al.			
	AN	2005/0051787	March 10, 2005	Erchak et al.			
	AO	2005/0087757	April 28, 2005	Erchak et al.			
	AP	2005-0040424	February 24, 2005	Erchak et al.			
	AQ	2005-0059178	March 17, 2005	Erchak et al.			
	AR	2005-0059179	March 17, 2005	Erchak et al.			
	AS	2005-0087754	April 28, 2005	Erchak			
	AT	2005-0127375	June 16, 2005	Erchak et al.			
	AU	3,293,513	August 8, 1962	J.R. Biard et al.			
	AV	3,922,706	November 25, 1975	Kaiser			
	AW	4,864,370	September 5, 1989	Gaw et al.			
	AX	5,126,231	June 30, 1992	Levy			
	AY	6,071,795	06/06/00	Cheung et al.			
	AZ	6,778,746	August 17, 2004	Charlton, et al.			

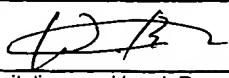
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U.S. Patent Documents							
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<i>BL</i>	AAA	6,849,558	February 1, 2005	Schaper			
<i>✓</i>	ABB	6,307,218	October 23, 2001	Steigerwald et al.			
<i>✓</i>	ACC	5,600,483	February 4, 1997	Fan et al.	<i>✓</i>	<i>✓</i>	<i>✓</i>

Foreign Patent Documents or Published Foreign Patent Applications							
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